

0068926

SAF-RC-001
Industrial Hygiene Sampling
FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG 06I-0159-01 SAF-RC-001

Rad only ☒ Chem only Rad & Chem

☒ Complete Partial

300 Area 334 Bldg

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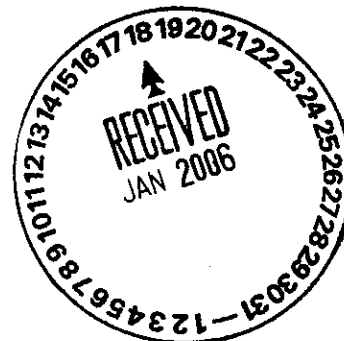
EDMC



Cover Page

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Report Identification Number: 06I-0159-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001
Payroll#: 0636267 CoA R33400J451



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
12 Jan 2006	J10X17	06I01299	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X18	06I01300	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X11	06I01301	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X12	06I01302	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X13	06I01303	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X14	06I01304	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X15	06I01305	NMAM 7300M	G060J011	MCE
12 Jan 2006	J10X16	06I01306	NMAM 7300M	G060J011	MCE

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Name: Lisa M. Reid
Title: Chemist
Date: January 18, 2006



Case Narrative Page

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Report Identification Number: 06I-0159-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001
Payroll#: 0636267

General Set Information: There are 8 samples in set 06I-0159-01 and 5 samples in set 06I-0160-01 which were analyzed for beryllium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.01 ug/sample. .

Method Blank Analysis: No beryllium was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS result was within the control limit of +/- 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD was within the control limit of 20%.



Case Narrative Page

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Replicate Analysis: Two samples in this batch were replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples ($\mu\text{g}/\text{sample}$) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu\text{g}/\text{L}$)

B = Concentration factor from sample preparation

= $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

Miscellaneous Comments: None.



Report Page

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Report Identification Number: 06I-0159-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF#: RC-001
Payroll#: 0636267

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium $\mu\text{g}/\text{sample}$		Beryllium $\mu\text{g}/\text{m}^3$		Air Volume L
J10X17	06I01299	17 Jan 2006	<0.01	U	**		0.
J10X18	06I01300	17 Jan 2006	<0.01	U	**		0.
J10X11	06I01301	17 Jan 2006	<0.01	U	<0.0014	U	7142.4
J10X12	06I01302	17 Jan 2006	<0.01	U	<0.0013	U	7803.12
J10X13	06I01303	17 Jan 2006	<0.01	U	<0.0013	U	7594.50
J10X14	06I01304	17 Jan 2006	<0.01	U	<0.0089	U	1128.272
J10X15	06I01305	17 Jan 2006	<0.01	U	<0.013	U	761.342
J10X16	06I01306	17 Jan 2006	<0.01	U	<0.0091	U	1101.92
Limit of Detection (LOD)			0.01				
Required Detection Limit (RDL)							

U - Parameter not detected above LOD.
J - Parameter between LOD and RDL.



QC Summary Page

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Report Identification Number: 06I-0159-01
Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby
Laboratory Identification Number: DCHM
SAF: RC-001
Payroll#: 0636267

Batch ID: G060J011

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240140-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
QC-240140-1	LCS	Beryllium	µg/sample	10.3	NA	10.0	103.	NA
QD-240140-1	LCSD	Beryllium	µg/sample	10.5	10.3	10.0	105.	1.88

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|) / ((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

01-01-99.01



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: John Peoples	Company Contact: Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1239	Project Coordinator: Joan H. Kessner	Data Turnaround: 24 hr
Payroll #: 0636267	Sampling Location: 300 Area	SPECIAL INSTRUCTIONS All relevant COAs must be provided: R33400J451		SAF No. RC-001
Type of Sample: Be	Bldg 334	ANALYSIS METHOD (SPECIFIC):		Method of Shipment: Federal Express
Shipped To: Data Chem Salt Lake	Wipe Sample Media: Ghost 01-12-06 Other	Bill of Lading/Air Bill No. 8541 9337 5329		
POSSIBLE SAMPLE HAZARD/REMARKS	MATRIX A - AIR W - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No
Special Handling and/or Storage			No	No

SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L or Area)	Comments					
J10X17	A	01-12-06	NA	Blank			X		
J10X18			NA	Blank			X		
J10X11			7142.4	Perimeter			X		
J10X12			7903.12	Perimeter			X		
J10X13			7584.50	Perimeter			X		
J10X14			1128.372	Area			X		
J10X15	↓	↓	761.342	Personal			X		
J10X16	A	01-12-06	1101.92	Area			X		
01-12-06									

WCH-SH-302 (08/29/2005)

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DataChem Laboratories, Inc.
960 West Levoy Drive
Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700
FAX: (801) 268-9992

Web Page: www.datachem.com
E-mail: lab@datachem.com

Enter on line below the first Sample Number from Page One:

510 x17

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			
SIGN / PRINT NAMES / USE MILITARY TIME			
Released By/Initial <i>John Peoples</i>	DATE / TIME <i>01.12.06 / 1600</i>	Received By/Initial <i>Locked Cabinet Room 16 Bldg. 3746</i>	DATE / TIME <i>01.12.06 / 1600</i>
Released By/Initial <i>DM Driggers / DM Driggers</i>	DATE / TIME	Received By/Initial	DATE / TIME
<i>locked cabinet 3746 room 16</i>	<i>1-16-06 / 1415</i>	<i>RZ Steffler R. Z. Steffler</i>	<i>1-16-06 1415</i>
Released By/Initial <i>RZ Steffler R. Z. Steffler</i>	DATE / TIME <i>WCH</i>	Received By/Initial <i>Fed Ex</i>	DATE / TIME
<i>Fed Ex</i>	<i>1-16-06 / 1500</i>	<i>Meredith E. Ewald</i>	<i>17 Jan 06 / 945</i>
Released By/Initial <i>Meredith E. Ewald</i>	DATE / TIME <i>17 Jan 06 / 945</i>	Received By/Initial	DATE / TIME
Released By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Released By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Released By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
Released By/Initial	DATE / TIME	Received By/Initial	DATE / TIME
LABORATORY SECTION	Received By <i>Meredith E. Ewald</i>	Title	DATE / TIME <i>17 Jan 06 / 945</i>

REVIEWED BY: _____ DATE: _____
PRINT/SIGN NAME

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: John Peoples	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround
Payroll #: 0636267	Sampling Location 300 Area	SPECIAL INSTRUCTIONS All relevant COAs must be provided:		SAF No. RC-001
Type of Sample: Be	Bldg 334	ANALYSIS METHOD (SPECIFIC):		Method of Shipment Federal Express
Shipped To: Data Chem Salt Lake	Wipe Sample Media: Ghost <input checked="" type="checkbox"/> Pres <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> 01-12-06	Bill of Lading/Air Bill No.		8541 9337 5329

POSSIBLE SAMPLE: HA/ARD/REMARKS	MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No						
Special Handling and/or Storage													

SAMPLE ANALYSIS

SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) or Area	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold
J10X17	A	01-12-06	NA	Blank			X		
J10X18			NA	Blank			X		
J10X11			7142.41	Perimeter			X		
J10X12			7903.12	Perimeter			X		
J10X13			7584.50	Perimeter			X		
J10X14			1128.272	Area			X		
J10X15	↓	↓	766.342	Personal			X		
J10X16	A	01-12-06	1101.92	Area			X		
		01-12-06							

COPY

FIELD SAMPLE COPY

Enter on line below the first Sample Number from Page One:

510 x17

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

SIGN / PRINT NAMES / USE MILITARY TIME

Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
John Peoples	01.12.06 / 1600	Locked Cabinet Room 16 Bldg. 3746	01.12.06 / 1600
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
DM Driggers / DM Driggers		RZ Steffler R. Z. Steffler	1-16-06 1415
locked cabinet 3746 room 16	1-16-06 / 1415		
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
RZ Steffler R. Z. Steffler	1-16-06 / 1500	Fed Ex	
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
Released By/Store:	DATE / TIME:	Received By/Store:	DATE / TIME:
LABORATORY SECTION	Received By	Title	DATE / TIME

REVIEWED BY: _____ DATE: _____

PRINT/SIGN NAME